

50AF MCCB

ABN50c, ABS50c, ABH50c



ABS53c

Ratings

Frame size		50AF			
Type and Pole		N-Type	S-Type	H-Type	
3-pole		ABN53c	ABS53c	ABH53c	
Rated current, In		15-20-30-40-50A			
Rated operational voltage, Ue		AC: 690V DC: 500V			
Rated insulation voltage, Ui		AC: 750V			
Rated impulse withstand voltage, Uimp		8kV			
Rated short-circuit breaking capacity, Icu		N-Type	S-Type	H-Type	
AC	690V	2.5kA	5kA	10kA	
	480/500V	7.5kA	10kA	35kA	
IEC 60947-2 (Icu)		460V	14kA	18kA	
Ics=100%Icu	415V	14kA	18kA	50kA	
	380V	18kA	22kA	50kA	
	220/250V	30kA	35kA	100kA	
	DC 500V(3P)	5kA	10kA	30kA	
Protective function		Overload, Short-circuit			
Type of trip unit		Thermal-Magnetic			
Magnetic trip range		12 × In (30A and under: 400A)			
Endurance	Mechanical	25000 operations			
	Electrical	10000 operations			
Connection	Standard	Front connection			
	Optional	Rear connection			
Mounting		Plug-in			
Standard		Screw fixing			
Dimensions (mm)		Pole	3p	3p	3p
	a		75	75	90
	b		130	130	155
	c1 <small>Note)</small>		60	60	60
	c2 <small>Note)</small>		64	64	64
	d		82	82	82
Weight, kg	Standard	0.7	0.7	1	
Certification		Pole	3p	3p	3p
CE marking			○	○	○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

- Drawings ▶ 53, 58 page
- Trip curves ▶ 49, 50 page
- Accessories ▶ 34 page
- Connection and mounting ▶ 77 page

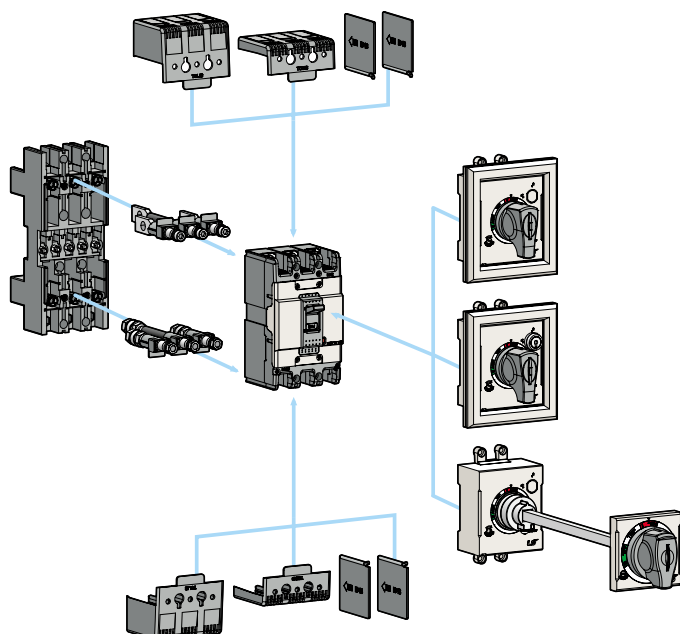
Ordering types

Breaker types

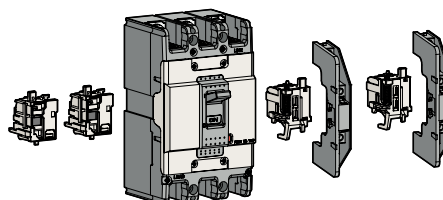
ABN type (14kA/460V)	
Rated current, In	3-pole
15 A	ABN53c/15
20 A	ABN53c/20
30 A	ABN53c/30
40 A	ABN53c/40
50 A	ABN53c/50

ABS type (18kA/460V)	
Rated current, In	3-pole
15 A	ABS53c/15
20 A	ABS53c/20
30 A	ABS53c/30
40 A	ABS53c/40
50 A	ABS53c/50

ABH type (50kA/460V)	
Rated current, In	3-pole
15 A	ABH53c/15
20 A	ABH53c/20
30 A	ABH53c/30
40 A	ABH53c/40
50 A	ABH53c/50



Accessories



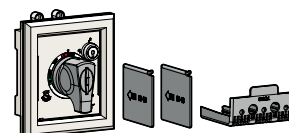
Electrical auxiliaries

AX	Auxiliary Switch	
AL	Alarm Switch	
AX+AL	Combination switch	
SHT	Shunt Trip	
UVT	Undervoltage trip	

Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 34 page



External accessories

ABN50c ABS50c	ABH50c	Name
IB13	IB23	Insulation barrier
TCL13	TCL23	Terminal cover (Long)
TCS13	TCS23	Terminal cover (Short)
DH100	DH125	Rotary handle (Direct)
DHK100	DHK125	Rotary handle (Direct, Key lock)
EH100	EH125	Rotary handle (Extended)
-	RTB2	Rear terminal (Bar)
RTR1	RTR2	Rear terminal (Round)
PB-A3	PB-C3	Plug-in kit
PHL100	PHL125	Pad handle lock

Note) For more detail see 39 page

60AF MCCB

ABN60c, ABS60c



ABS63c

Ratings

Frame size		60AF	
Type and Pole		N-Type	S-Type
3-pole		ABN63c	ABS63c
Rated current, In		15-20-30-40-50-60A	
Rated operational voltage, Ue		AC: 690V DC: 500V	
Rated insulation voltage, Ui		AC: 750V	
Rated impulse withstand voltage, Uimp		8kV	
Rated short-circuit breaking capacity, Icu		N-Type	S-Type
AC	690V	2.5kA	5kA
	480/500V	7.5kA	10kA
IEC 60947-2 (Icu)		460V	14kA
Ics=100%Icu	415V	14kA	18kA
	380V	18kA	22kA
	220/250V	30kA	35kA
	DC 500V(3P)	5kA	10kA
Protective function		Overload, Short-circuit	
Type of trip unit		Thermal-Magnetic	
Magnetic trip range		12 × In (30A and under: 400A)	
Endurance	Mechanical	25000 operations	
	Electrical	10000 operations	
Connection	Standard	Front connection	
	Optional	Rear connection	
Mounting		Plug-in Screw fixing	
Dimensions (mm)		Pole	3p
	a		75
	b		130
	c1 <small>Note)</small>		60
	c2 <small>Note)</small>		64
	d		82
	Weight, kg	Standard	0.7
Certification		Pole	3p
CE marking		☐	○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

- Drawings ▶ 53 page
- Trip curves ▶ 49 page
- Accessories ▶ 34 page
- Connection and mounting ▶ 77 page

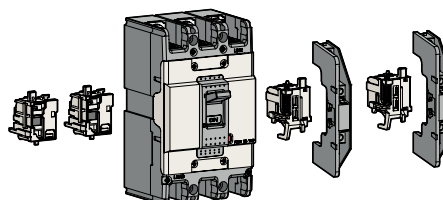
Ordering types

Breaker types

ABN type (14kA/460V)	
Rated current, I _n	3-pole
15 A	ABN63c/15
20 A	ABN63c/20
30 A	ABN63c/30
40 A	ABN63c/40
50 A	ABN63c/50
60 A	ABN63c/60

ABS type (18kA/460V)	
Rated current, I _n	3-pole
15 A	ABS63c/15
20 A	ABS63c/20
30 A	ABS63c/30
40 A	ABS63c/40
50 A	ABS63c/50
60 A	ABS63c/60

Accessories



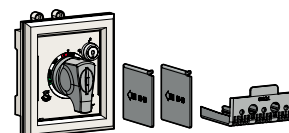
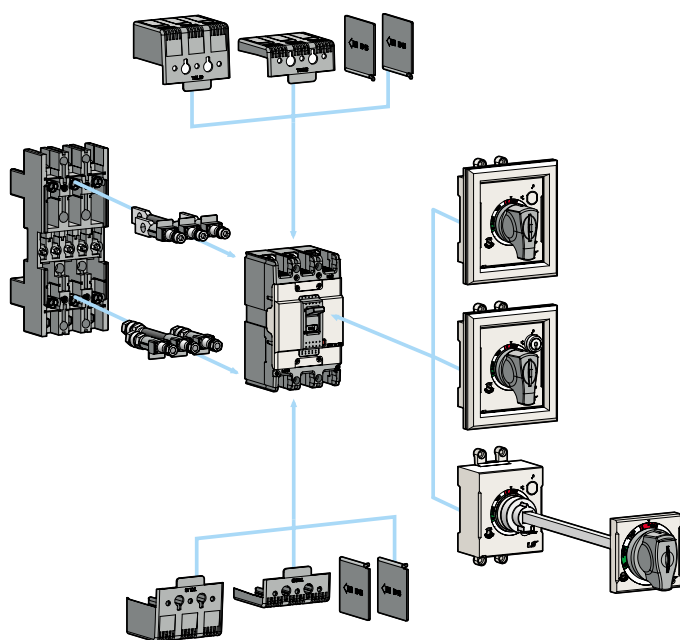
Electrical auxiliaries

AX	Auxiliary Switch	
AL	Alarm Switch	
AX+AL	Combination switch	
SHT	Shunt Trip	
UVT	Undervoltage trip	

Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 34 page



External accessories

ABS60c ABN60c	Name
IB13	Insulation barrier
TCL13	Terminal cover (Long)
TCS13	Terminal cover (Short)
DH100	Rotary handle (Direct)
DHK100	Rotary handle (Direct, Key lock)
EH100	Rotary handle (Extended)
RTB1	Rear terminal (Bar)
RTR1	Rear terminal (Round)
PB-A3	Plug-in kit
PHL100	Pad handle lock

Note) For more detail see 39 page

100AF MCCB

ABN100c



ABN103c

Ratings

Frame size		100AF	
Type and Pole		N-Type	
3-pole		ABN103c	
Rated current, In		15-20-30-40-50-60-75-100A	
Rated operational voltage, Ue		AC: 690V	
		DC: 500V	
Rated insulation voltage, Ui		AC: 750V	
Rated impulse withstand voltage, Uimp		8kV	
Rated short-circuit breaking capacity, Icu		N-Type	
AC	690V	5kA	
	480/500V	10kA	
IEC 60947-2 (Icu)		460V	
Ics=100%Icu		18kA	
	415V	18kA	
	380V	22kA	
	220/250V	35kA	
DC	500V(3P)	10kA	
Protective function		Overload, Short-circuit	
Type of trip unit		Thermal-Magnetic	
Magnetic trip range		400A	
Endurance	Mechanical	25000 operations	
	Electrical	10000 operations	
Connection	Standard	Front connection	
	Optional	Rear connection	
		Plug-in	
Mounting	Standard	Screw fixing	
Dimensions (mm)		Pole	3p
	a		75
	b		130
	c1 <small>Note)</small>		60
	c2 <small>Note)</small>		64
	d		82
	Weight, kg	Standard	
Certification		Pole	3p
CE marking			○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

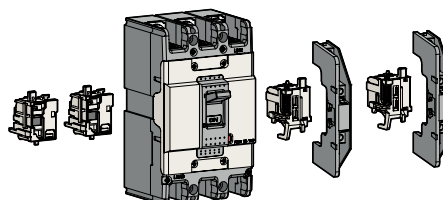
- Drawings ▶ 53 page
- Trip curves ▶ 49 page
- Accessories ▶ 34 page
- Connection and mounting ▶ 77 page

Ordering types

Breaker types

ABN type (14kA/460V)	
Rated current, I _n	3-pole
15 A	ABN103c/15
20 A	ABN103c/20
30 A	ABN103c/30
40 A	ABN103c/40
50 A	ABN103c/50
60 A	ABN103c/60
75 A	ABN103c/75
100 A	ABN103c/100

Accessories



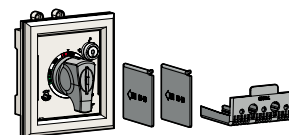
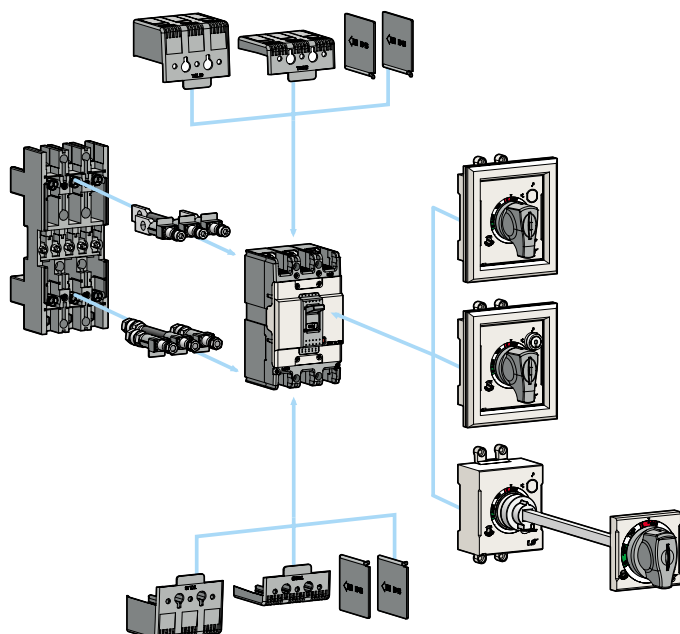
Electrical auxiliaries

AX	Auxiliary Switch	
AL	Alarm Switch	
AX+AL	Combination switch	
SHT	Shunt Trip	
UVT	Undervoltage trip	

Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 34 page



External accessories

ABN100c	Name
IB13	Insulation barrier
TCL13	Terminal cover (Long)
TCS13	Terminal cover (Short)
DH100	Rotary handle (Direct)
DHK100	Rotary handle (Direct, Key lock)
EH100	Rotary handle (Extended)
RTB1	Rear terminal (Bar)
RTR1	Rear terminal (Round)
PB-A3	Plug-in kit
PHL100	Pad handle lock

Note) For more detail see 39 page

125AF MCCB

ABS125c, ABH125c



ABS103c

Ratings

Frame size		125AF	
Type and Pole		S-Type	
		H-Type	
3-pole		ABS103c	ABH103c
Rated current, In		15-20-30-40-50-60-75-100-125A	
Rated operational voltage, Ue		AC: 690V	
		DC: 500V	
Rated insulation voltage, Ui		AC: 750V	
Rated impulse withstand voltage, Uimp		8kV	
Rated short-circuit breaking capacity, Icu		S-Type	H-Type
AC	690V	8kA	10kA
	480/500V	26kA	35kA
IEC 60947-2 (Icu)		460V	37kA
Ics=100%Icu	415V	37kA	50kA
	380V	42kA	50kA
		220/250V	85kA
DC	500V(3P)	20kA	30kA
Protective function		Overload, Short-circuit	
Type of trip unit		Thermal-Magnetic	
Magnetic trip range		12 × In (30A and under: 400A)	
Endurance	Mechanical	25000 operations	
	Electrical	10000 operations	
Connection	Standard	Front connection	
	Optional	Rear connection	
		Plug-in	
Mounting	Standard	Screw fixing	
Dimensions (mm)		Pole	3p
	a	90	90
	b	155	155
	c1 <small>Note)</small>	60	60
	c2 <small>Note)</small>	64	64
	d	82	82
	Weight, kg	Standard	1
Certification		Pole	3p
CE marking		☉	☉

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

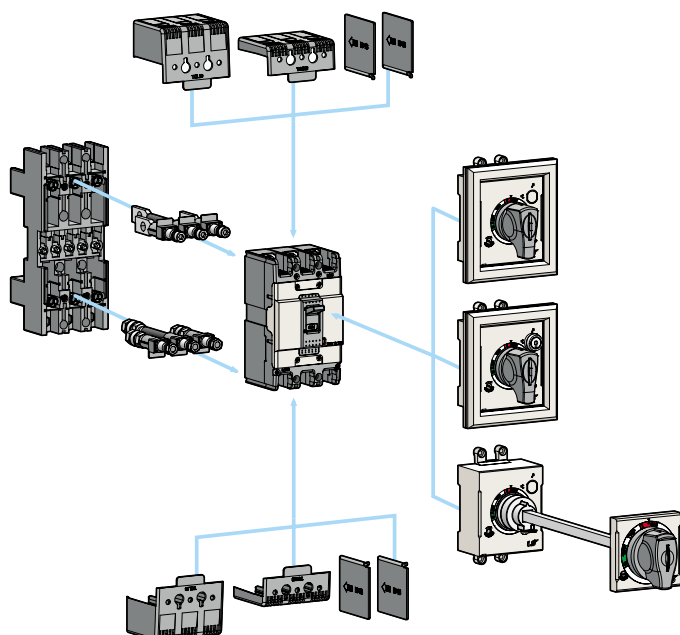
- Drawings ▶ 58 page
- Trip curves ▶ 50 page
- Accessories ▶ 34 page
- Connection and mounting ▶ 77 page

Ordering types

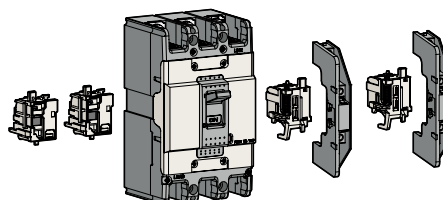
Breaker types

ABS type (37kA/460V)	
Rated current, In	3-pole
15 A	ABS103c/15
20 A	ABS103c/20
30 A	ABS103c/30
40 A	ABS103c/40
50 A	ABS103c/50
60 A	ABS103c/60
75 A	ABS103c/75
100 A	ABS103c/100
125 A	ABS103c/125

ABH type (50kA/460V)	
Rated current, In	3-pole
15 A	ABH103c/15
20 A	ABH103c/20
30 A	ABH103c/30
40 A	ABH103c/40
50 A	ABH103c/50
60 A	ABH103c/60
75 A	ABH103c/75
100 A	ABH103c/100
125 A	ABH103c/125



Accessories



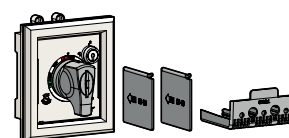
Electrical auxiliaries

AX	Auxiliary Switch	
AL	Alarm Switch	
AX+AL	Combination switch	
SHT	Shunt Trip	
UVT	Undervoltage trip	

Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 34 page



External accessories

ABS125c ABH125c	Name
IB23	Insulation barrier
TCL23	Terminal cover (Long)
TCS23	Terminal cover (Short)
DH125	Rotary handle (Direct)
DHK125	Rotary handle (Direct, Key lock)
EH125	Rotary handle (Extended)
RTB2	Rear terminal (Bar)
RTR2	Rear terminal (Round)
PB-C3	Plug-in kit
PHL125	Pad handle lock

Note) For more detail see 39 page

250AF MCCB

ABN250c, ABS250c, ABH250c



ABS203c

Ratings

Frame size		250AF			
Type and Pole		N-Type		S-Type	H-Type
3-pole		ABN203c		ABS203c	ABH203c
Rated current, In		100-125-150-175-200-225-250A			
Rated operational voltage, Ue		AC: 690V DC: 500V			
Rated insulation voltage, Ui		AC: 750V			
Rated impulse withstand voltage, Uimp		8kV			
Rated short-circuit breaking capacity, Icu		N-Type		S-Type	H-Type
AC 690V		8kA		8kA	10kA
480/500V		18kA		26kA	35kA
IEC 60947-2 (Icu)		460V		37kA	50kA
Ics=100%Icu		415V		37kA	50kA
		380V		42kA	50kA
		220/250V		85kA	100kA
DC 500V(3P)		10kA		20kA	30kA
Protective function		Overload, Short-circuit			
Type of trip unit		Thermal-Magnetic			
Magnetic trip range		12 × In			
Endurance		Mechanical		25000 operations	
		Electrical		10000 operations	
Connection		Standard		Front connection	
		Optional		Rear connection	
		Plug-in			
Mounting		Standard		Screw fixing	
Dimensions (mm)		Pole	3p	3p	3p
		a	105	105	105
		b	165	165	165
		c1 <i>Note)</i>	60	60	60
		c2 <i>Note)</i>	64	64	64
		d	87	87	87
Weight, kg		Standard	1.2	1.2	1.2
Certification		Pole	3p	3p	3p
CE marking			○	○	○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

- Drawings ▶ 63 page
- Trip curves ▶ 51 page
- Accessories ▶ 34 page
- Connection and mounting ▶ 77 page

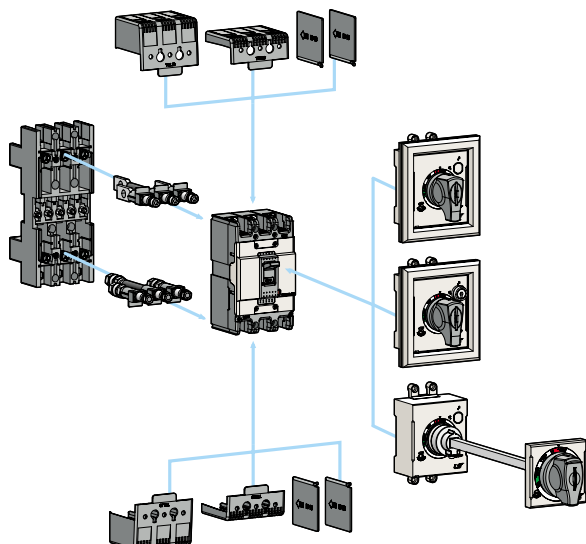
Ordering types

Breaker types

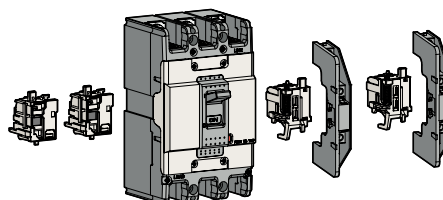
ABN type (25kA/460V)	
Rated current, In	3-pole
100 A	ABN203c/100
125 A	ABN203c/125
150 A	ABN203c/150
175 A	ABN203c/175
200 A	ABN203c/200
225 A	ABN203c/225
250 A	ABN203c/250

ABS type (37kA/460V)	
Rated current, In	3-pole
100 A	ABS203c/100
125 A	ABS203c/125
150 A	ABS203c/150
175 A	ABS203c/175
200 A	ABS203c/200
225 A	ABS203c/225
250 A	ABS203c/250

ABH type (50kA/460V)	
Rated current, In	3-pole
100 A	ABH203c/100
125 A	ABH203c/125
150 A	ABH203c/150
175 A	ABH203c/175
200 A	ABH203c/200
225 A	ABH203c/225
250 A	ABH203c/250



Accessories



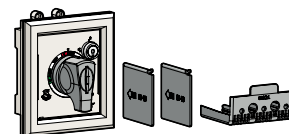
Electrical auxiliaries

AX	Auxiliary Switch	
AL	Alarm Switch	
AX+AL	Combination switch	
SHT	Shunt Trip	
UVT	Undervoltage trip	

Maximum possibilities

T-position	One of above auxiliaries
R-position	Option of AX or AL or AX+AL

Note) For more detail see 34 page



External accessories

ABH250c	Name
B33	Insulation barrier
TCL33	Terminal cover (Long)
TCS33	Terminal cover (Short)
DH250	Rotary handle (Direct)
DHK250	Rotary handle (Direct, Key lock)
EH250	Rotary handle (Extended)
RTB3	Rear terminal (Bar)
RTR3	Rear terminal (Round)
PBA250C	Plug-in kit
PHL250	Pad handle lock

Note) For more detail see 39 page

400AF MCCB

ABN400c, ABS400c, ABH400c, ABL400c



ABS403c

Ratings

Frame size		400AF				
Type and Pole		N-Type	S-Type	H-Type	L-Type	
3-pole		ABN403c	ABS403c	ABH403c	ABL403c	
Rated current, In		250-300-350-400A				
Rated operational voltage, Ue		AC: 690V				
		DC: 500V				
Rated insulation voltage, Ui		AC: 750V				
Rated impulse withstand voltage, Uimp		8kV				
Rated short-circuit breaking capacity, Icu		N-Type	S-Type	H-Type	L-Type	
IEC 60947-2 (Icu)	AC 690V	5kA	8kA	10kA	14kA	
	480/500V	18kA	35kA	50kA	65kA	
	415/460V	37kA	50kA	65kA	85kA	
	380V	42kA	65kA	70kA	100kA	
	220/250V	50kA	75kA	85kA	125kA	
DC 500V(3P)	10kA	20kA	40kA	40kA		
	250V(3P)	10kA	20kA	40kA	40kA	
Ics=100%Icu	125V	100%	100%	100%	75%	
Protective function		Overload, Short-circuit				
Type of trip unit		Thermal-Magnetic				
Magnetic trip range		8~12In				
Endurance	Mechanical	4000 operations				
	Electrical	1000 operations				
Connection	Standard	Front connection				
	Optional	Rear connection				
Mounting	Standard	Plug-in				
		Screw fixing				
Dimensions (mm)		Pole	3p	3p	3p	3p
	a		140	140	140	140
	b		257	257	257	257
	c1 <small>Note)</small>		109	109	109	109
	c2 <small>Note)</small>		113	113	113	113
	d		145	145	145	145
	Weight, kg	Standard	6.2	6.2	6.2	6.2
Certification		Pole	3p	3p	3p	3p
CE marking			○	○	○	○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

- Drawings ▶ 65 page
- Trip curves ▶ 52 page
- Accessories ▶ 35 page
- Connection and mounting ▶ 78 page

Ordering types

Breaker types

ABN type (37kA/460V)	
Rated current, In	3-pole
250 A	ABN403c/250
300 A	ABN403c/300
350 A	ABN403c/350
400 A	ABN403c/400

ABS type (50kA/460V)	
Rated current, In	3-pole
250 A	ABS403c/250
300 A	ABS403c/300
350 A	ABS403c/350
400 A	ABS403c/400

ABH type(65kA/460V)	
Rated current, In	3-pole
250 A	ABH403c/250
300 A	ABH403c/300
350 A	ABH403c/350
400 A	ABH403c/400

ABL type(85kA/460V)			
Rated current, In	2-pole	3-pole	4-pole
250 A	ABL402c/250	ABL403c/250	ABL404c/250
300 A	ABL402c/300	ABL403c/300	ABL404c/300
350 A	ABL402c/350	ABL403c/350	ABL404c/350
400 A	ABL402c/400	ABL403c/400	ABL404c/400

Accessories



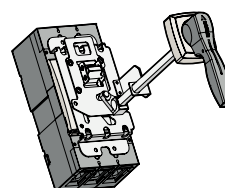
Electrical auxiliaries

AX	Auxiliary Switch	
AL	Alarm Switch	
SHT	Shunt Trip	
UVT	Undervoltage trip	

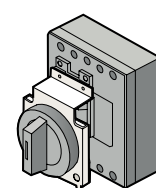
Maximum possibilities

T-position	Option of 2AX, 2AL and SHT or UVT
R-position	Option of 2AX, 2AL and SHT or UVT

Note) For more detail see 35 page



E-70U



N-70

External accessories

IBL400	Insulation barrier
T1-43A	Terminal cover (Long) - 2, 3pole
T1-44A	Terminal cover (Long) - 4pole
N-70	Rotary handle (Direct)
E-70U	Rotary handle (Extended)
MI-43	Mechanical interlock - 2, 3pole
MI-44	Mechanical interlock - 4pole
X-402	Rear terminal - 2pole
X-403	Rear terminal - 3pole
X-404	Rear terminal - 4pole
PB-I3-FR	Plug-in kit

Note) For more detail see 39 page

800AF MCCB

ABN800c, ABS800c, ABL800c



ABS803c

Ratings

Frame size		800AF			
Type and Pole		N-Type	S-Type	L-Type	
3-pole		ABN803c	ABS803c	ABL803c	
Rated current, In		500-630-700-800A			
Rated operational voltage, Ue		AC: 690V DC: 500V			
Rated insulation voltage, Ui		AC: 750V			
Rated impulse withstand voltage, Uimp		8kV			
Rated short-circuit breaking capacity, Icu		N-Type	S-Type	L-Type	
IEC 60947-2 (Icu)	AC 690V	8kA	10kA	14kA	
	480/500V	25kA	45kA	65kA	
	415/460V	37kA	65kA	85kA	
	380V	45kA	75kA	100kA	
	220/250V	50kA	85kA	125kA	
	DC 500V(3P)	10kA	20kA	40kA	
	250V(3P)	10kA	20kA	40kA	
Ics=100%Icu	125V	100%	100%	75%	
Protective function		Overload, Short-circuit			
Type of trip unit		Thermal-Magnetic			
Magnetic trip range		8~12In			
Endurance	Mechanical	2500 operations			
	Electrical	500 operations			
Connection	Standard	Front connection			
	Optional	Rear connection			
		Plug-in			
Mounting	Standard	Screw fixing			
Dimensions (mm)		Pole	3p	3p	3p
	a		210	210	210
	b		280	280	280
	c1 <small>Note)</small>		109	109	109
	c2 <small>Note)</small>		113	113	113
	d		145	145	145
	Weight, kg	Standard	11.5	11.5	11.5
Certification		Pole	3p	3p	3p
CE marking		CE	○	○	○

Note) Depth by door cut size : c1 for large cut, c2 for small cut

For more information

- Drawings ▶ 67 page
- Trip curves ▶ 52 page
- Accessories ▶ 35 page
- Connection and mounting ▶ 78 page

Ordering types

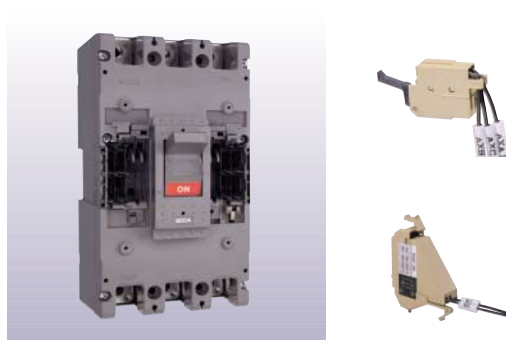
Breaker types

ABN type (37kA/460V)	
Rated current, In	3-pole
500 A	ABN803c/500
630 A	ABN803c/630
700 A	ABN803c/700
800 A	ABN803c/800

ABS type (65kA/460V)	
Rated current, In	3-pole
500 A	ABS803c/500
630 A	ABS803c/630
700 A	ABS803c/700
800 A	ABS803c/800

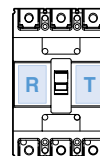
ABL type(85kA/460V)	
Rated current, In	3-pole
500 A	ABL803c/500
630 A	ABL803c/630
700 A	ABL803c/700
800 A	ABL803c/800

Accessories



Electrical auxiliaries

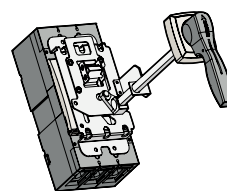
AX	Auxiliary Switch
AL	Alarm Switch
SHT	Shunt Trip
UVT	Undervoltage trip



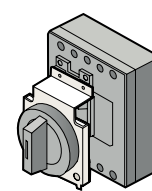
Maximum possibilities

T-position	Option of 2AX, 2AL and SHT or UVT
R-position	Option of 2AX, 2AL and SHT or UVT

Note) For more detail see 35 page



E-80U



N-80

External accessories

IBL800	Insulation barrier
T1-63A	Terminal cover (Long) - 2, 3pole
T1-64A	Terminal cover (Long) - 4pole
N-80	Rotary handle (Direct)
E-80U	Rotary handle (Extended)
MI-83S	Mechanical interlock - 2, 3pole
MI-84S	Mechanical interlock - 4pole
X-802	Rear terminal - 2pole
X-803	Rear terminal - 3pole
X-804	Rear terminal - 4pole
PB-J3-FR	Plug-in kit

Note) For more detail see 39 page